

Work Order ID 78502

78502

Page 1

January 10-12-1:23:40 PM

Item ID: D350-604-041

Accept

N900040100

Setup Start *NS1*

Revision ID:

Item Name: Rear Locker Extender

Stop *NS2*

Start Date: 10/01/2012 Start Qty: 1.00

1

Cust Item ID:

Required Date: 10/02/2012 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: M.L.J

Date: 12/01/10

Tooling:

Date:

Run Start *NR1*

QC:

Date:

SPC (Y/N):

Date:

Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
D2273	<u>DE</u>
D350-604-041	A
DSI9470	A

100

0.00

100

DOCUMENT CONTROL

DC

Memo

0.00

Document Control

Photocopy bluefile and create labels per PPP D350-604-041

CHG002

CHG002 5/2/02/15 for M.L.J 12-2-10

110

0.00

110

PURCHASING

Purchasing

Memo

0.00

Purchasing

Issue P/O: 15853

Description: D350-604-041 Rear locker extender.

Supplier: Delastek.

Certification of Conformity and process sheet from Delastek is required.

4 x 2600-6 Camlock stud - Ship to Delastek B 120077

CL 12/01/11 (1)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

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NOTE: Date & initial all entries

Work Order ID 78502***78502***

Page 3

January-10-12 1:23:40 PM

Item ID: D350-604-041

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Rear Locker Extender

Start Date: 10/01/2012 Start Qty: 1.00

1

Cust Item ID:

Required Date: 10/02/2012 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

150 QC4- 100% Inspect kits for completeness 0.00

150

QC

Memo

0.00

Quality Control

160

160

Packaging

Packaging

Memo

0.00

Packaging

Identify and pack for shipping as per PPP D350-604-041

Location: _____

PPP Rev: _____

170

170

QC

QC21- Final Inspection - Work Order Release

0.00

Memo

0.00

Quality Control

M.C.J.
12/02/16
(1)

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

January-10-12 1:23:45 PM

Page 1

Work Order ID: 78502

78502

Parent Item: D350-604-041

D350-604-041

Parent Item Name: Rear Locker Extender

Start Date: 10/01/2012

Required Date: 10/02/2012

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:Q03.12.01ReformatKJ/RF

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
2600-6 *2600-6* Camlock Stud		Purchased	No			110	Each	212.0000	4	4			
										**	C8 12/01/12		
				<u>Location</u>			<u>Loc Qty</u>			<u>Loc Code</u>			
				ST380			212						
				119895			12						
				120077			200						
D350-604-041P *D350-604-041P* Rear Locker Extender		Purchased	No			120	Each	0.0000	1	1			
										**	12/2/12 (1)		
D2268 *D2268* Decal		Manufactured	No			140	Each	9.0000	1	1			
										**			
				<u>Location</u>			<u>Loc Qty</u>			<u>Loc Code</u>			
				ST009			9						
				69592			2						
				74520			7						
D2269 *D2269* Decal		Manufactured	No			140	Each	5.0000	1	1			
										**	12/2/12		
				<u>Location</u>			<u>Loc Qty</u>			<u>Loc Code</u>			
				ST009			5						
				74521			5						

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

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NOTE: Date & initial all entries

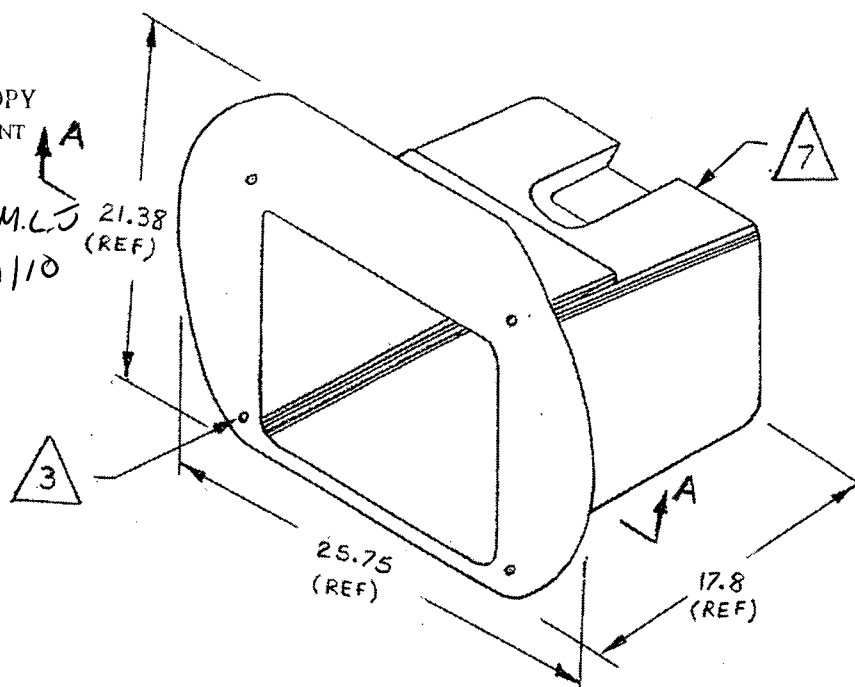


DESIGN JB	DRAWN BY <i>[Signature]</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>[Signature]</i>	APPROVED <i>[Signature]</i>	DRAWING NO. D2273	REV. D SHEET 1 OF 1
DATE 02.04.01		TITLE 350 REAR LOCKER EXTENDER	SCALE NTS
B	96.05.27	RE-DRAWN	
C	02.01.30	CLARIFY MATERIAL, LAYUP, AND TOOLING	
D	02.04.01	REMOVE EPOCAST, ADD SURFACE FINISH	

RELEASED
02.04.03 *[Signature]*

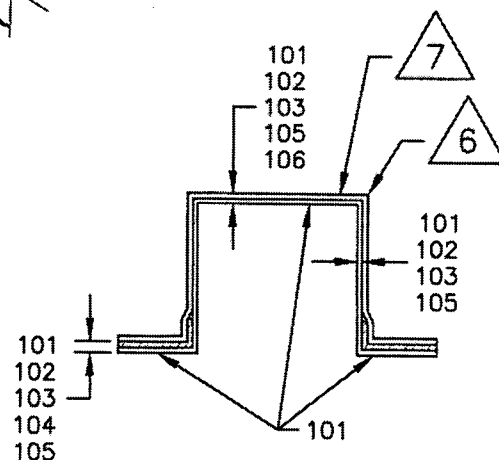
SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 78502 M.L.S

12/01/10



NOTES:

- 1) LAMINATE PER DART QSI 006. LAMINATION SCHEDULE PER THIS DRAWING.
- 2) LAYUP USING DT8010 MOLD. WET LAYUP NO BAG/VACUUM.
- 3) TRIM & DRILL PER DT8020. OPEN HOLES TO $\phi 0.257$ (4 PLACES).
- 4) MATERIALS:
RESIN: DERAKANE 470-36/411/510A40
FIBRE: 9oz = 9.7 oz 7781 WEAVE "S" GLASS
18oz = 18.0 oz ROVING "E" GLASS.
- 5) CONSTRUCTION:
101-WHITE GLOSS GELCOAT # GEL 944W005.
102-9oz ALL OVER.
103-18oz ALL OVER.
104-18oz RE-INFORCE FRONT FLANGE EXTENDING 2" ON SIDES.
105-9oz ALL OVER.
106-PEEL PLY.
- 6) MATTE TO HOLD DOWN CORNERS AS REQUIRED.
- 7) FINISH THIS SURFACE WITH DUPONT HIGHBUILD GREY PRIMER 1144-S.
- 8) ALL DIMENSIONS ARE IN INCHES.



SECTION A-A

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

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NOTE: Date & initial all entries



Delastek inc.
2699 5e avenue
Local 14, Porte -A-
Grand-Mère, Québec G9T 5K7
Can ** Fax (819) 533-3494 **

PACKING SLIP CERTIFICATE OF COMPLIANCE

Invoice #	42130
Customer #	DART US

Telephone: (819) 533-5788

Warehouse: MAIN

Bill to:

DART AEROSPACE LTD
1270, Aberdeen Street
Hawksbury, Ontario K6A 1K7
Canada

Ship to:

DART AEROSPACE LTD
1270, Aberdeen Street
Hawksbury, Ontario K6A 1K7
Canada

Telephone: 613-632-5200

Contact: Linda Lacelle

Ship via		F.O.B.		Terms		Salesperson	
FEDEX P1 Collect		Origin		Net 30 days USA		Claude Lessard, ext. 233	
Ship date	Order Date	Our PO #	Order by	Your PO #	GST/PST #		
08/02/2012	13/01/2012	19686	Chantal Lavoie	PO15853			
Order Qty	B.O. Qty	Current Ship.	Item #	Item Description			
1	0	1	DKC134-0003	Line #1 Rear Locker Extender D350-604-041P B78502 U de M : Each Référence DKA362-0004 DWG: D350-604-041 REV. A1 D2273 REV. D <u>No. série</u> B78502 <u>No. lot</u> 37645			

It is hereby certified that all materials, process and finished items were controlled and tested in accordance with the requirements of the purchase order and applicable specifications. All such records are on file at our plant and available for review upon request.

☒ Cust. ☐ Adm. ☐ Quality ☐ Ship.

Accepted by:



Quality department

AQ-357

Date: Mercredi, 2011-12-07 07:32:30
 Utilisateur: Pascal Carignan

Feuille de Procédé

Client : DART US DART AEROSPACE LTD

Numéro Job : 37645

Numéro Soumission : 3482

Numéro B.A. :

Cette fois : 2011-12-07 No. B.V. :

Prsht Rev. : NC

Prem. fois : - - - Type :

Job précédente : 37644

Écrit par :

Vérifié & Approuvé par :

Commentaires :

N° de pièce Laminée Dart Aerospace: D2273

N° de pièce Assemblage Dart Aerospace: D350-604-041

Nom Dessin : REAR LOCKER EXTENDER

Numéro Article : DKC134-0003

Numéro Dessin : D350-604-041 & D2273

Projet Numéro : DK-362

Révision dessin : A & D

Matériel : Derakane 470-36/411/510

Date Dûe : 2011-12-14

Qté: 1 Udm: UNITE

B78502

Process Sheet Rév.: 03 Modifier la séq. 6 Prep-general.

Produit additionnel

Numéro Job:

Séq.:

Machine ou Opération:

Description :

1.0

PRÉPARATION

Préparation du moule

Commentaire Setup: 0.00Hrs/ Run: 15.0000Min Total Run : 0.2500Hrs

Faire la préparation du moule DKO-0250 selon IG 0009.

Date: 19-01-12 Sceau:

2.0

AMB0350

Gel Coat Blanc N° Gel 944W005

Commentaire Qty.: 1.580 UNITE(s)/Unit Total : 1.580 UNITE(s)

Gel Coat Blanc N° Gel 944W005

N° de Lot: 1-33488-1

3.0

AMB0286

Catalyst N° DDM-9

Commentaire Qty.: 0.0070 GALLON(s)/Unit Total : 0.0070 GALLON(s)

Catalyst N° DDM-9

N° de Lot: 1-27829-1

4.0

AC0747

Acetone

Commentaire Qty.: 0.200 KILOGRAMME(s)/Unit Total : 0.200 KILOGRAMME(s)

5.0

PREP-GENERAL

Préparation du matériel

Commentaire Setup: 0.00Hrs/ Run: 45.0000Min Total Run : 0.7500Hrs

Tailler le matériel selon les dimensions requises à l'aide de gabarit de trimage prévus à cet effet.

Date: 21-12-11 Sceau:

Feuille de Procédé

Client: DART US DART AEROSPACE LTD
Numéro Job: 37645

Nom Dessin: REAR LOCKER EXTENDER
Numéro Article: DKC134-0003

Numéro Job:



Séq.:

Machine ou Opération:

Description :

6.0

PREP-GENERAL

Préparation du matériel



Commentair Setup: 0.00Hrs/ Run: 30.0000Min Total Run : 0.5000Hrs

Faire la préparation du Gel coat selon IF134-0003.

Date: 19-01-12 Sceau:



7.0

GEL COAT

Application du Gel Coat



Commentair Setup: 0.00Hrs/ Run: 20.0000Min Total Run : 0.3333Hrs

Appliquer le gel coat selon IF 134-0003(réf. IG0019).

Note: Le gel coat ne doit contenir aucun "airdry" ni aucune cire. Et le temp de séchage est important afin d'éviter d'avoir des défauts de surface, et afin d'éviter que le tissu ne vienne marquer au travers du Gel Coat ainsi que d'éviter d'avoir un rétrécissement.

Quantité: 1 LB. Date: 19-01-12 Sceau:



8.0

AMB0212

Résine (411B7530) 411-350 promo. 75min.

Commentair Qty.: 1.680 LITRE(s)/Unit Total : 1.680 LITRE(s)

Résine (411B7530) 411-350 promo. 75min

N° de Lot: 1-33579-1

9.0

AMB0286

Catalyst N° DDM-9

Commentair Qty.: 0.0070 GALLON(s)/Unit Total : 0.0070 GALLON(s)

Catalyst N° DDM-9

N° de Lot: 1-27829-1

10.0

AMB0214

9.7 oz Weave "S" glass #FG-778150-125Y Volan Finish

Commentair Qty.: 4.6 VERGE(s)/Unit Total : 4.6 VERGE(s)

9.7 oz Weave "S" glass #FG-778150-125Y Volan Finish

N° de Lot: 1-33588-1

11.0

AMB0213

WR1850 Roving 18oz x 50"

Commentair Qty.: 1.140 KILOGRAMME(s)/Unit Total : 1.140 KILOGRAMME(s)

WR1850 Roving 18oz. x 50"

N° de Lot: 1-32516-1

12.0

LAMINAGE

Faire le laminage



Commentair Setup: 0.00Hrs/ Run: 3.5000Hrs Total Run : 3.5000Hrs

Selon IF 134-0003. S'assurer de ne pas trapper d'air entre les rangs.

Inscrire les informations suivantes:

Humidité:

Température:

Heure:

Quantité:

Date: 19-01-12 Sceau:



Date: Mercredi, 2011-12-07 07:32:31

Utilisateur: Pascal Carignan

Feuille de Procédé

Client: DART US DART AEROSPACE LTD

Nom Dessin: REAR LOCKER EXTENDER

Numéro Job: 3245

Numéro Article: DKC134-0003

Numéro Job:



Séq.:

Machine ou Opération:

Description :

13.0

AMB0212

Résine (411B7530) 411-350 promo. 75min.

Commentair Qty.: 0.150 LITRE(s)/Unit Total : 0.150 LITRE(s)

Résine (411B7530) 411-350 promo. 75min N° de Lot: N/A



14.0

AMB0286

Catalyst N° DDM-9

Commentair Qty.: 0.0070 GALLON(s)/Unit Total : 0.0070 GALLON(s)

Catalyst N° DDM-9 N° de Lot: N/A



15.0

FINITION

Finition Générale



Commentair Setup: 0.00Hrs/ Run: 30.0000Min Total Run : 0.5000Hrs

Injecter les bulles d'air selon IF134-0003 si applicable.

Quantité: 0 Date: 0 Sceau: 0



16.0

DÉMOULAGE

Démoulage de la pièce



Commentair Setup: 0.00Hrs/ Run: 10.0000Min Total Run : 0.1667Hrs

Faire le démoulage de la pièce selon IF134-0003 en poussant de l'air à l'intérieur tout en faisant bien attention de ne pas l'endommager.

Quantité: 1 Date: 24-01-12 Sceau:



17.0

TRIMAGE

Trimage



Commentair Setup: 0.00Hrs/ Run: 40.0000Min Total Run : 0.6667Hrs

Selon IF 134-0002.

Faire le sablage si nécessaire.

Quantité: 1 Date: 26-01-12 Sceau:



18.0

AAC1021

Dupont Primer N° 7704S

Commentair Qty.: 0.3400 UNITE(s)/Unit Total : 0.3400 UNITE(s)

Dupont Primer N° 7704S N° de Lot: 1-31117-3

19.0

AAC1101

N° 7775S, Dupont Activator - Reducer Chromabase

Commentair Qty.: 0.0670 UNITE(s)/Unit Total : 0.0670 UNITE(s)

N° 7775S, Dupont Activator - Reducer Chromabase N° de Lot: 1-31394-2

Date: Mercredi, 2011-12-07 07:32:31
Utilisateur: Pascal Carignan

Feuille de Procédé

Client: DART US DART AEROSPACE LTD

Nom Dessin: REAR LOCKER EXTENDER

Numéro Job: 37645

Numéro Article: DKC134-0003

Numéro Job:



Séq.:

Machine ou Opération:

Description :

20.0

PRIMER

Application primer



Commentair Setup: 0.00Hrs/ Run: 15.0000Min Total Run : 0.2500Hrs

Appliquer le primer selon IG 0008.

Quantité: 1

Date: 26 jan 12

Sceau:



N° fiche de Mélange: N/A

21.0

AAC1607

Camlock Stud 2600-4 (or Monadnock 1126000-4)

Commentair Qty.: 4 UNITE(s)/Unit Total : 4 UNITE(s)

Camlock Stud 2600-4 (or Monadnock 1126000-4)

N° de Lot:

1 - 33626-1 A2
1 - 33960-1 A2

22.0

AAC0682

Washer 2600-LW (1127700)

Commentair Qty.: 4 UNITE(s)/Unit Total : 4 UNITE(s)

Washer 2600-LW (1127700)

N° de Lot: 1 - 32667-6

23.0

ASSEMBLAGE

Assemblage mécanique



Commentair Setup: 0.00Hrs/ Run: 15.0000Min Total Run : 0.2500Hrs

Faire l'assemblage selon IF134-0004.

Démasquer la pièce.

Assembler les "Studs" selon IG 0037.

Quantité: 1

Date: 30-01-12

Sceau:



24.0

IDENTIFICATION

Identification à encre indélébile



Commentair Setup: 0.00Hrs/ Run: 10.0000Min Total Run : 0.1667Hrs

Faire l'identification de la pièce selon IF134-0005.

N° de pièce Cleint: D350-604-041

N° de Job: 37645

N° de Fabrication: 01/31/12

Quantité: 1

Date: 01/31/12

Sceau:



25.0

INSPEC FINAL

Inspection finale



Commentair Setup: 0.00Hrs/ Run: 10.0000Min Total Run : 0.1667Hrs

Faire l'inspection dimensionnelle et visuelle de la pièce selon le dessin.

Date: Mercredi, 2011-12-07 07:32:31
Utilisateur: Pascal Carignan

Feuille de Procédé

Client: DART US DART AEROSPACE LTD
Numéro Job: 37645

Nom Dessin: REAR LOCKER EXTENDER
Numéro Article: DKC134-0003

Numéro Job:



Séq.:

Machine ou Opération:

Description :

Quantité: 1

Date: 31-01-12

Sceau:



26.0

EMBAL / ENTREPO

Emballage & Entreposage



Commentair Setup: 0.00Hrs/ Run: 10.0000Min Total Run : 0.1667Hrs

Faire l'emballage selon IG 0057.

Quantité: 1

Date: 31 janv. 2012

Sceau:



Fab: 31 janv. 2012

Change Record

Part Number D350-604-04
Description Rear Locker Extender

Page 1 of 1[illegible]